

Seymour Benzer and

Examiner:

Not Yet Known

Kyung-Tai Min

Serial No.:

09/895,141

Group Art Unit:

1614

Filed:

June 29, 2001

Docket No.:

30431.3US01

Title:

LIFE EXTENSION OF DROSOPHILA BY A DRUG TREATMENT

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on October 2, 2001.

By: Tracy ruick

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b)(3)

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. They are as follows:

- Alfageme, C. R., Zweidler, A., Mahowald, A. & Cohen, L. H. Histones of *Drosophila* embryos J. Biol. Chem. 12, 3729-3736 (1974) (Exhibit 1)
- Benzer, S., Behavioral Mutants Of *Drosophila* Isolated By Countercurrent Distribution,
 Proc. Natl. Acad. Sci. U.S.A. 58, 1112-1119 (1967) (Exhibit 2)
- Guarente, L & Kenyon, C., Genetic pathways that regulate ageing in model organisms,
 Nature 408, 255-262 (2000) (Exhibit 3)
- Imai, S., Amstrong, C. M., Kaeberlein, M. & Guarente, L. The transcriptional silencing and longevity protein Sir2 is an NAD-dependent histone deacetylase. *Nature* 403, 795-800 (2000) (Exhibit 4)

Serial No. 09/895,141

Filed: June 29, 2001

Page 2

- Kim, S., Benguria, A., Lai, C. & Jazwinski, S. M. Modulation of life-span by histone deacetylase genes in Saccharomyces cerrevisiae Mol. Biol. Cell 10, 3125-3136 (1999) (Exhibit 5)
- Lea et al. Induction of Histone Acetylation and Growth Regulation in Erythroleukemia
 Cells by 4-phenylbutyrate and Structural Analogs Anticancer Research 19:1971-1976
 (1999) (Exhibit 6)
- Lea, M. A. & Randolph, V.M. Induction of reporter gene expression by inhibitors of histone deacetylase Anticancer Res. 18, 2717-2721 (1998) (Exhibit 7)
- Lee, C. et al. Gene expression profile of aging and its retardation by caloric restriction Science 285, 1390-1393 (1999) (Exhibit 8)
- Lin, Y. J., Seroude, L. & Benzer, S. Extended life-span and stress resistance in the Drosophila mutant methuselah Science 282, 943-946 (1998) (Exhibit 9)
- Mannervik, B. The isoenzymes of glutathione transferase. Adv. Enzymol. Relat. Areas
 Mol. Biol. 57, 357-417 (1985) (Exhibit 10)
- Orr, W. C. & Sohal, R. S. Extension of life-span by overexpression of superoxide dismutase and catalase in *Drosophila melanogaster*. Science 263, 1128-1130 (1994) (Exhibit 11)
- Orr, W. C. & Sohal, R.S. Effects of Cu/Zn superoxide dismutase overexpresion on life span and resistance to oxidative stress in transgenic *Drosophila melanogaster*. Arch. Biochem. Biophys. 301, 34-40 (1993) (Exhibit 12)

Serial No. 09/895,141

Filed: June 29, 2001

Page 3

Parkes, T. L. et al. Extension of Drosophila lifespan by overexpression of human SOD1 in motoneurons. Nat. Genet. 19, 171-174 (1998) (Exhibit 13)

- Rogina, B., Reenan, R. A., Nilsen, S. P. & Helfand, S. L. Extended life-span conferred by cotransporter gene mutations in *Drosophila Science* 290, 2137-2140 (2000) (Exhibit 14)
- Shelton, D. N. et al., Microarray analysis of replicative senescence Current Biology 9, 939-945 (1999) (Exhibit 15)
- Tatar, M., Khazaeli, A. A. & Curtsinger, J. W. Chaperoning extended life. *Nature* 390, 30 (1997) (Exhibit 16)
- Webster, G. C. & Webster, S. L. Specific disappearance of translatable messenger RNA for elongation factor one in aging *Drosophila melanogaster*. Mech. Ageing Devel. 24, 335-342 (Exhibit 17)
- Zou, S., Meadows, S., Sharp, L., Jan, L.Y. & Jan, Y. N. Genome-wide study of aging and oxidative stress response in *Drosophila melanogaster Proc. Natl. Acad. Sci. U.S.A.* 97. 13726-13731 (2000) (Exhibit 18)

This statement should be considered because it is submitted before the mailing date of the first Office Action on the merits according to C.F.R.§1.97(b)(3). In accordance with 37 C.F.R. §1.98(d), copies of each document or other information listed on the enclosed Form 1449 are provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish

Serial No. 09/895,141

Filed: June 29, 2001

Page 4

that the reference(s) are not "prior art." Moreover, Applicants do not represent that the

references have been thoroughly reviewed or that any relevance of any portion of a reference is

intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of

M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

as being considered and initialed by the Examiner, to the undersigned with the next official

communication.

No fee is deemed necessary in connection with the filing of this Information Disclosure

Statement. However, if any additional fee is required, authorization is hereby given to charge the

amount of any such fee to Deposit Account No. 50-0306.

Respectfully submitted,

Sarah B. Adriano

Registration No. 34,470

Attorney for Applicants

Mandel & Adriano

35 No. Arroyo Parkway, Suite 60

Pasadena, California 91103

(626) 395-7801

Customer No. 26,941

c:\trt\cit30431\3us01\file wrapper\ids\commids.doc

4





Serial No.:

09/895,141

Filed:

June 29, 2001

Docket:

30431.3US01

Title:

LIFE EXTENSION OF DROSOPHILA BY A DRUG TREATMENT

CERTIFICATE UNDER 37 CFR 1.8

I hereby certify that this paper or fee is being deposited with the United States Postal as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on October 2, 2001.

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.8.

Information Disclosure Statement (37 C.F.R. §1.97 (b)(3))

Form 1449 (Information Disclosure Statement)

Exhibits 1-18

Return postcard

Please charge any additional fees or credit overpayment to Deposit Account No. 50-0306. A duplicate of this sheet is enclosed.

MANDEL & ADRIANO

35 No. Arroyo Parkway, Suite 60 Pasadena, California 91103 (626) 395-7801 Name: Sarah B. Adriano

Reg. No.: 34,470 Initials: SBA

Customer No. 26,941